

Media Analysis of PISA 2015 Results - Chinese Taipei

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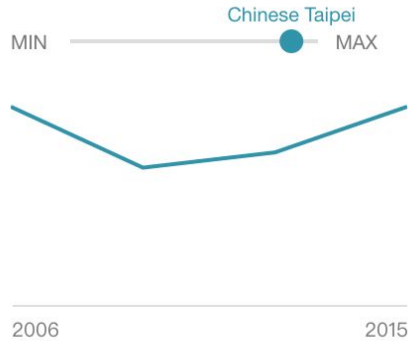


Chinese Taipei PISA History

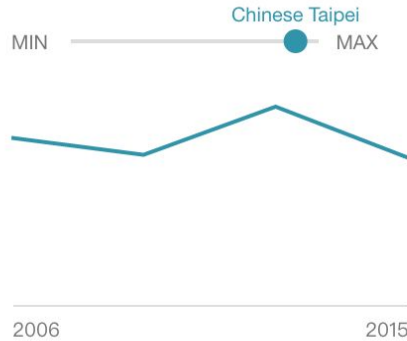
Year	Science		Mathematics		Reading	
	Ranking	Score	Ranking	Score	Ranking	Score
PISA 2006	4 / 57	532	1 / 57	103	16 / 57	496
PISA 2009	12 / 85	520	5 / 85	105	23 / 85	495
PISA 2012	13 / 75	523	4 / 75	116	8 / 75	523
PISA 2015	4 / 72	532	4 / 72	497	23 / 72	542

Longitudinal Analysis of Chinese Taipei PISA Results

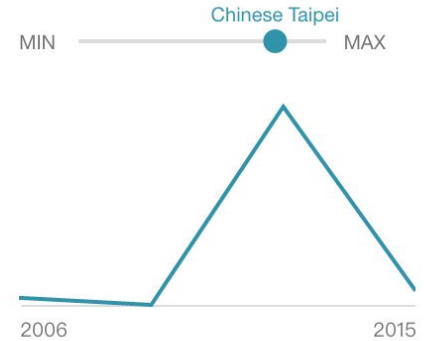
Science



Mathematics



Reading



PISA 2015 Sampling Info

Regions: Taiwan, Penghu, Jinmen and Mazu areas

Sample schools: 214, including middle schools, high schools, vocational high school, and 5-Year Junior College

Participants: 7708 students

Research Method

Dataset: 17 Online News Reports from the top four biggest private newspapers and one state-owned news agency.

United Daily News	China Times	Apple Daily	Liberty Times	Central News Agency
7	3	2	2	3

Publication Dates: 12/6-12/7

Analysis

- Title Analysis
- Text Analysis
- Speaker Analysis

Findings (Title Analysis)

1. Ten out of sixteen titles employ the exact rankings, including three titles refer to Singapore's winning in the assessment and nine titles highlighting that Taiwan achieves fourth in the ranking.
2. There are two interesting titles.

2015 PISA結果公佈 閱讀素養倒退7年 (The results of PISA 2015 are released. The reading achievement retrogressed to seven years ago)

相信嗎？台灣PISA閱讀排名大倒退是因民族意識弱 (Do you believe it? The falling of Taiwan in PISA reading is due to lacking patriotism)

Findings (Text Analysis)

1. Nine out of sixteen reports quote or use the snapshots from the press conference that released the PISA 2015 Taiwan results on Dec. 6, 2016.



Findings (Text Analysis)

2. News agencies in Taiwan widely other countries but close comparative analysis with East Asian countries.

Name of other countries mentioned		
Categories	Number	%
Singapore	13	81.25%
Japan	12	75%
South Korea, Hong Kong	7	43.75%
Mainland China	6	37.5%
Macao, Estonia	5	31.25%
Finland	4	25%
Canada, The U.S.	3	18.75%
Ireland, Austria, Belgium, Croatia, France, Slovakia, Germany, Vietnam	1	6.26%

Findings (Text Analysis)

3. Focus on explaining the PISA performance in different subjects

a. The reasons of the dramatic dropping in reading achievement

- Taiwanese students are used to paper-based reading rather than online reading in article analysis. Also the questions of reading test in PISA 2015 doubled compared to the test in 2012.
- Taiwanese students' reading ability becomes worse and worse, because they are used to short articles in Facebook and fictional readings. Also, although the reading tests in high schools are aligned with PISA tests, the tests in middle schools still focus on pronunciation and common knowledge acquirement.
- Taiwanese education focuses on test scores. The national tests require a lot of rote learning, so the teachers don't dare to design the test questions based on interdisciplinary resources as PISA does.
- Taiwanese students' poor achievement in PISA reading is because they don't pay attention to the test and don't take it as a chance to win honour for the country as their peers in Mainland China, Korea and Japan do.

Findings (Text Analysis)

3. Focus on explaining the PISA performance in different subjects (Cont.)

b. The reasons of the great performance in Science and Math

- Ministry of Science and Technology and Ministry of Education implemented several education plans in recent years, so Taiwanese students are doing great in Science and Math.
- Taiwanese students are good at taking tests. How to transfer the testing skills to the research skills is the crucial question.

c. The reason why the rate of low-performers in Science

- Teachers don't organize students to conduct exploratory research as the curriculum criteria requires.

d. The reason why Taiwanese students "have no interests" to become scientists

- Taiwanese students only take Science as a tool of tests and have no interests in studying it.

Findings (Speaker Analysis)

1. “Education Experts” are frequently cited in the news articles.

Speakers	
Categories	Times of Appearing (Number of the Figures)
MOE	5(1)
OECD	1
University Professors	11(5)
Teacher/principal	7(3)
Student	0
Think tanks/Rsch org	0
Other	0

Findings (Speaker Analysis)

2. Strong arguments to promote the national standard tests and curriculum reforms based on PISA standards

Taiwanese students are used to paper-based reading. They are not comfortable with reading long articles with tables and figures, so the reading achievement comparatively drops.

Taiwanese students are not good at online reading, therefore, it is necessary to cultivate students' deep reading capabilities, equip schools with reading hardware, integrate similar questions in the national high-stake tests to catch up with the international standards, and gradually implement online learning.

The result of PISA will be considered as reference in Taiwan 12-year compulsory education reform. Middle school graduation test and college entrance examination will consider to add in PISA subjective questions to make students think more in their study.

Hopefully, when Reading becomes the focal subject, Taiwanese students can make a progress in Reading. ”

--Vice-Minister of Education Tengjiao Lin

Findings (Speaker Analysis)

2. Strong arguments to promote the national standard tests and curriculum reforms based on PISA standards (Cont.)

The students' "Evaluate and design scientific enquiry" skill is comparatively weak. Also, according to teachers' survey, the percentage of teachers arranging experimental studies is low. Although the current curriculum criteria require the experimental studies, they are rarely implemented. Therefore, the courses of designing scientific enquiry needs to be emphasized. National tests need to integrate related questions to guide the teaching."

---National Chiao Tung University chair professor & PISA 2015 Taiwan Team Xiaoqing She

Findings (Speaker Analysis)

2. Strong arguments to promote the national standard tests and curriculum reforms based on PISA standards (Cont.)

The General Scholastic Ability Test in Taiwan will become similar to the PISA tests in 2018, touching upon articles about Science, History, Philosophy, and Laws. Grade 11 and below are using the new standards, so many freshmens in high schools will encounter difficulties in reading and even guess the answers blindly in the exams.

Taiwanese middle school should change the Chinese language teaching pedagogy, increase the reading requirements of middle school students and incorporate different kinds of reading materials in the tests as soon as possible to cater to the change of the types of test questions.”

---New Taipei Municipal Banqiao Senior High School Chinese Language Teacher Tingsen Guan